Mott Journal #2 [PN-80-05-03]

This is the second of six pocket notebooks used by Charles P. Mott, a member of the office staff at Menlo Park, to record daily activities at the laboratory. The entries from these notebooks were used as the basis for more extensive entries recorded by Mott in Menlo Park Notebooks #53 and #117. This pocket notebook covers the period May-June 1880. The front cover is labeled "151" and is inscribed "2nd" and "1880." The book contains approximately 40 unnumbered pages.

May 3

Experiment to determine whether heat
galvanic may not cause separation of a
K mixture of amalgams pouring copper
plate on top impure mercury covered with
dilute acid. Mercury can be purified

Prof. John Ott letting carpet measure &
and making diagram of one of the shops
K from dark room from which others
may be made of work yet

Burned wood being cooked in milling machine

Experimental test of belting tan by friction
in formula of armature Pl. 7 p. 115

Examining car castings delivered

Old factory being cleaned preparatory to putting in
K pumps and lamp manufacturing shop tools

Hours after Price visit to Birmingham
K visit Columbia again to day

May 4.

Wood stamp lamp No. 65 Chemical Research Bros. 63 unpaid

Samples Mullen making of wood mullen for Electric Experiments by Hammer & Ott
Commenced to work on pump 4/5 in good shape.

Sample Patterman work on pump for commenced

Boiler making 476 gauge manhole as per order of Mr. Edison & Stack Book No. 63 page 85

Electrical Calorimeter test continued by Edison

Mr. Fleming making diagram of pulsing for discussing to be seen in red far lay see referred they are putting down flooring.

Gondoliers South from Steam 25 cents 1/2 each line

Gas glass. 2 Elgs here with two samples of leak glass tubing like glass with which to make wooden moulds

Elec. Eng. have sent for ink paper & tar

Bulk Mould arranged on iron bar and with spring attachment for opening

Amalgamated Mercury Dr. Mason Amalgamated Mercury with 1% zinc to experiment on its ability to electrolize steel

Size for sand experiment circular 12 pounds of different size work finished by Lindsay

May 5.

Mercury Amalgamated by Mr. Crosse from
Zinc Throwing to have put first stuff
Commencing with [illegible] Tobacco [illegible]
27 Clamps Hammer informs me received off
The [illegible] pulverizing by himself done

Clamps of Iron copper and platina hinges in
X Clamps Clamp of light platina clamp [illegible]
[illegible] to be returned [illegible] by Mr Brown but [illegible]
[illegible] [illegible] [illegible]
X Early [illegible] Brown and pick punches to [illegible]

Sectional Calorimeter to [illegible] by Mr
Hart [illegible] [illegible] and [illegible]
X Hart Lamentation by one [illegible] to [illegible]
[illegible] [illegible] [illegible]
Book No. page 15.946

X Hart [illegible] [illegible] [illegible] [illegible] of [illegible]

One from New Mexico [illegible] with [illegible]
X by gentleman from Silver [illegible] No. 112

Globe Lamson experimenting on [illegible]
glass globes [illegible] by [illegible] [illegible]
X not found it to [illegible] [illegible] [illegible]
[illegible] by Lamson [illegible] [illegible]

Respirating Magnets for [illegible] Mineral
[illegible] for [illegible] making by [illegible]

Bench Hammer notice that [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
X Mercury [illegible] the [illegible] [illegible]
[illegible] [illegible] that [illegible] [illegible] [illegible]
[illegible] and [illegible] [illegible]

Thursday May 6

× Full [illegible] of [illegible], [illegible] by Mr Edison

Kang [illegible] [illegible] Wright making [illegible] of
× [illegible] [illegible] [illegible] [illegible] [illegible] broke from
Melted wood.

Calorimeter test with water [illegible] than
air shows the difference in inflow
× and outflow [illegible] [illegible] the. The
original temp of air & water varies
[illegible] to [illegible] [illegible] 1668. lb [illegible].
Engine [illegible] by [illegible] 11.00 PM

[illegible] [illegible] [illegible] on [illegible] [illegible] the
artificial Malachite, to see whether
it can be [illegible] or brought in
× condition to be used as the natural
as had not means to give the
sufficient pressure, satisfied from
the [illegible] that it can be [illegible]

General work. [illegible] [illegible] [illegible] on
[illegible] [illegible] machine Cunningham and
× [illegible] on [illegible] Dynamo. [illegible] and
Wright on Meter, Andrews on [illegible],
[illegible] on Conductors, [illegible] [illegible] factory

Friday May 7—

Tailings & [illegible] from [illegible] [illegible]
× [illegible] from F. McLaughlin [illegible] [illegible]

[illegible] of [illegible] and [illegible] in lamps in
× [illegible]

Machine of [illegible] for [illegible] 25
× books at once, being devised and
diagrams made by Kang

Clamp machine sketched by Batchelor
× Book 51 page 137 &c

Drawing copper wires, apparatus made
× by [illegible] to [illegible] soldering

Messenger Electromotor messages
× sketched and described by Mr. E.
Book 50 page 19

Varying electromotive force by speed
× of engine Book 50 page 12

× Large Generator [illegible] [illegible] at work on

Saturday May 8.

Filed and the casting [illegible]
Steamer received [illegible]
[illegible] on board

Hard [illegible] the [illegible] [illegible]
[illegible] [illegible] Lost 51 [illegible]

Arrived for orders [illegible] into place
[illegible] [illegible]

[illegible] C. E. S. Co. - [illegible]
Mr. & Friends.

Sunday May 9.

More cleaning [illegible] of engine
room. And hard cleaning [illegible]
[illegible] and [illegible] the [illegible]

Mr. [illegible] Helper [illegible] a number of
[illegible] [illegible] [illegible] and
[illegible] [illegible] [illegible] [illegible]

Monday, May 10

Cables to [illegible] within this [illegible]
X 4 [illegible] No. 16 wire, [illegible] [illegible] [illegible] [illegible], five [illegible] in all, [illegible] [illegible] room.

[illegible] [illegible] [illegible] out and [illegible]
X some long cloud at [illegible] [illegible] and found
they came out more evenly.

[illegible] the [illegible] necessary to [illegible] [illegible]
X and [illegible] [illegible] 200 [illegible]
[illegible] to be run with [illegible]
instead of Steam.

[illegible] [illegible] [illegible] [illegible]
X and [illegible]

Visitor [illegible] Egan a former employe [illegible] [illegible]

[illegible] [illegible] [illegible] in [illegible] of
X [illegible] [illegible] to be [illegible] [illegible]
to its [illegible] with [illegible] of
Thompsons galvanometer.

X Electric [illegible] working model being finished
[illegible] [illegible] [illegible] [illegible] [illegible]

Autographic [illegible] [illegible] and [illegible]
X [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible] [illegible] now.

Small [illegible] [illegible] lamps with small
clamps of copper platina ~~and~~ [illegible]
[illegible] in Laboratory to test copper stands
as well apparently as any other [illegible]
Mr. Edison observed a beautiful
bluish appearance about the clamp
X [illegible] on [illegible] the lamp the
same [illegible] was observed in
other clamps showing the action
to be the [illegible] of one of the [illegible]
which Mr [illegible] [illegible] The
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] and showing
that copper will not do for the
purpose.

Autographic [illegible] found that in using
X [illegible] paper on [illegible], that but one
pole from Dynamo current [illegible] [illegible]
the paper.

Tuesday May 11

Alexander Coleman to day began for a trip South, expecting to remain sixteen days

Coal Steel of Ohio & Pittsburgh Iron Hand good order for 100 tons coal

Read and of E. Thomas, all hands ready to receive the cars

Mercury experiments by Board of Mr. Edwin Thomas and the Mayor of Mr. Mercury cars & accompanied the Mercury cotton was placed into the tube of the Mercury filled & placed in Mercury. Above Mr. Edwin had placed in the tube containing a cotton flake, cotton & Mercury was connected by platinum wire, not over B. 40 p. 111

Review of Examination Book of Mr. Edwin Edwards made by Mr. John

Washington Van Horne cotton X Tube Business of good light cars by Cam Machine

R.R. connections made with Wells and Hamilton board made by Tom

Gage Lamp. Mr. Edwin made experiments of Increase of Lamp connection found Mercury column pointed to the [illegible] by the [illegible]

Wednesday May 12

Mott wrote to N.B. to see Butler about lumber for Mr. Batchelder and get manner of burner of lot in 12 lock R.

George Elder letter from Tramp. by Brewerman on Power R.R.

Geo. C. Victor raised 1/8 of flour and cross like a top.

Elisha Vother acquired positive proof of Mr. C. in alive Sunday.

Oliver Lewis. Andover on receiving Mulet. Lewis used Miller Cunningham & Swan Keyserve. Men on connection on the old engine.

Sold C. Merles by Ufkin. Book 4 S p. 58 compensator test with Bradley meter for power and farm governing.

For decomposition of dangerous Powers, by recaution to impalpable powders, please in powers you flame. N. C. Shaw

Suspension wooden distillers into iron lid on Combustion furnace (Indian on lot Cans) subgood.

Patent drawings and Specifications letters were made and sent to Mr. Edward Everett Stedgwicke

Thursday May 13.

Pelton Stuart in E. U. V. Cont. with Dr Gopher for making gas in N.Y.

Comparative tests of Boring and Reaming methods being made by Mr Upton.

The Archer Elders received this A.M.

Mercury Mines conducting Exp. for discovery of Nitrates, by importation or foreign substances received in Mercury often the utility of

Test of Mora Lock lamp by Franklin gave 8.6 per hour have of 75 candles at 70 cents nish. Rpd. 148 - 152 - 160 - 93 - 104. Page 157 Franklin Book

Discovery of small Dynamic power of Gopher with only one course of wire and other to a needs

The Mercury Compressed Air Tried x the Electricity. Etc. Experimentally

x Pic of the pulsator gear wheels Brothers Lamps first in Sutton & New Reversing

120 Horse power dynamics delivered by Mr Clarke's Magnets Night 1000 x Fine Dances 1870, and Number. Max. 5 Letter Book 72 page 186 &c.

Double revolution movement for increasing speed of engine good many desirable objects to be tried

Lt Hr. Gurney Through an
ear - and Thousand Driving Lt.
ow sec. Book 46 pg 103

Shunting Engine with new
a. B. Clements Clerk with Mr
Cant Drawing in his Inlet
Cock on pg 103 on 1873 to
the Direct Electric Motive Power
to change the Engine of Driving
Good Speed Entirely
from Engine Driving

Friday May 14

Elec. armature for application to elec tramway eng. sent to office per mr Perkins. Tests this day made with the armature off. n.c.

Friction Motor tests U.S. Sept 61 and notes by putting one on main line of shaft pulley shaft being to test small dynamo running which by Andrews

Elec Engine pitts with belt and pulley gear and tried with suffice. force to turn not of statute

Carbonization Sewer Mr Ford

Bars etc came out badly not on interior

Lyon In the Engine is the starting tipis of discussion

Armature for New Dynamo will weigh 2500

Saturday May 15

Poles Mr. Ware on New York for

Cutting down Babcock Wilcox Boiler to their boiler room manager &c.

Tailings & bags from Hammer bed sent

By E. A. D. Williams 723 Chestnut St St Louis Mo.

Training of the tramway shaft to

Effectual ideas Books 31 page 167 &c

By Bartlett & Hopkins one of gear on Engine pitts p. 11 - pg. 179

Eng of Elec Tramway tests - with

Said repairs of

Flannel ~~Muslin~~ prepared some

Bart-poles arter other items unnecessarily carbonized using in wood.

Motor tests made by Mr. Upton

Book 48 pg 77

Monday May 18

Engine Hard work Broke out of the inside of engine house yesterday and cleaned up.

Cunningham & Andrews worked on Engine Mondays yesterday and finished it in the Engine to day.

Brought Glass delivered this A. M. and work commenced on them

Mr. Eggs by Wheeler Bomb 48 Dy 85

Brought Boards shipped to W. Butler at New Brunswick

Carbonized Flannel sent some strips to Hotel press and prepared some Wash Files for carbonization out of 12 get by good ones. Run on Sat 9 carbon

May 18

*Hotel Pressing for w. Feb 6 to date

Wash Files selected by Foreman

Books No 57 - page 124

Tuesday May 18

Generator Moved from Dynamo Station into the Station to be used for current for Dynamo, the motor with the machine on was run the full length of track and return with the two generators on the line was seen running in series of lines and both with a passenger without any difficulty, quite a party of foreign Board officers inspecting the new and Electric railway.

The passage of Engines on the track in Station shop yet by being drawn by Ropes.

Coaster in Pumps made and opened for Book Book Military order

Colors Dynamo being made by Sidey

Filer 8 Bastard Saws in Machine & on Pumps.

*

Wednesday May 19.

X Visitors Mr. Miller & Bergmann

Fiber turner Ott making Miniature [illegible] Machine attached
X for turning bast fiber fine length [illegible]

Indicating Mr. Clarke taking indicator
X cards while the elec engine was
running 6 & 9 & 24 to 40. Arranged
glass fountain pen for use in [illegible]

Carbonization about 17 [illegible] of wood
looks carbonized but with insufficient
X [illegible] most of the carbons being very
crooked and misshapen. Apple best

(Rolled copper found by experiments of
X [illegible] to effect the deposit in [illegible]
(by the destruction of the surface)

Telephonic Phonograph Mr. Edison
desired Bergmann to construct a
X very small Phonograph for experiment
in connection with motograph Telephone

Tried Mag E ohms with 1640 – 25 volts in Generator
X Tried Magn. 1.6 volts in armature and
resist .16 of an ohm.

Thursday May 20

Patents Mott finished up 26 drawings
X and Mr. Miller specifications for
patent on Magnetic engine R.R. Ca.

2 bags
Ore from Boulder Co. Colorado sent by
X C.P. Beer agent Ogdensburgh N.Y.

Exp to determine the cause of discharge
X from a magnet 48 page 125.

Autographic Printing for some time has
X been using dynamic current at
[illegible] using [illegible] [illegible] today
and getting good results.

Carbonization Van C. carbonized three
X molds bent wood in nickel [illegible] plates
came out very good

Feb 19 Gave from Bank Peter Campbell 103 Dollars
Gave from Sol 32 Lander

Edinburgh from the Treasury Books Aug. 1839
Exc. Mdse: 30,000.00 Equipt - 22 Crowding Cap

Friday May 21 -

Occupied in repairs, Motivating. Mr Edison performed some experiments in Incandescence in a vacuum with platinum and carbon filaments by which the usual method working and proved quite a quantity of valuable data

Tested the Lighting making the complete test of small dynamo as furnished under motor

Commencing large machine [illegible] experiments performed

Worked milling on cam machine. Drawing patterns and screws [illegible] Equipment

[illegible] 13 & Bro. Gately, in a number of [illegible] for the amount of order

Commenced Carbon. Incandescent Carbon filament was carbonized by means of Platinum Chloride & Hydrochloric Acid using Florence flask over steam flame. The Platinum after Chloride was taken place for some time, a bead being decomposed by flash of light, till the flame the platinum was carbonized in flasks

Worked on Rear Dynamo [illegible] on Sunday Gang lapping [illegible] at the factory, the Bearings also in [illegible] Machine, occasionally stopping to discuss gas with Mr Moore & Mr Price, then changing the counter shaft and pulleys on engine shaft

Saturday, May 22

Tuesday, May 25

Tuesday Bassford Tempe at 15 cents
gave 98 per hour power Boiler 48 by 12
Felix Ostrander's boy of me of the N.
Lone Tree Creek ...

*Hatter Mr. Selby.

Monday, May 24.

Morris Sun Lopher draft by drawing
*Henry Mr. McVicker in Barnsdale
Mr. a former image rose

Lewis engineer to Lee & Lindsay Dale
*Mr. Mathew Nickle plate same with
finish vase

Detail dynamo Pastime from Philippine
*To.

Messrs Parks & Engineer over new-
*Italian Angelo
Christian ...

Mr. Jackson Thoroughgood given
*Mr. Tom Wilson Lincoln drawings

Mr. Mc Kinnie ... again ...
*Mr. of Lewis and Lewis Hickory
Lazar Milling

*Guardian Mr. Ed. went to New York in
company with Mr. Bailey.

Van Lagrafit

Jack Mr. Mc drawing to Pierce
Edgerton ... Pierce
Mr. ... Mr. Bailey
Mr. ... Mr. ... for some
permanent adaptation of the ...
statements

Jack of Ward Lodge at the 55 Thousand cold
180.2 Jack 7 per Hour hour. 30 C. 4.96
chase Not 55 Hour power

Jack Large Dynamo Magnet 1.94 Tom
... 4 per R.P. 9 Jack power
*Carnahan running 102 Flow ...
Boiler 48 Page 1.97 * Boiler 37 Page 1.85

Are the same in substance, and their church government is on the same principle. They are more firmly than any other great body of Christians adhere to the Calvinistic faith.

Saturday May 22

Tests of Bash plus lamps at 18 candles gave 2.5 per power Book 48, pg 147

Tables [illegible] of the [illegible] [illegible] board [illegible]

Visited [illegible]

Whole machine in the river St. Clairsville Iron Works Henry B. Wilson Pres. Jas. Wilson Sec. Jas. Gill Sup. Latest practice was to use 1 lb. coal to 7 lbs. steam. Engine supplied by the Pittsburgh Locomotive Works. Boiler supplied by the Pittsburgh Boiler Works. Machine was shipped at Cleveland, January 4, 85. Has been in operation.

Monday Mar. 24.

Studied Sum. Mathematics [illegible] by drawing [illegible] Monday, Mr. Wilson on [illegible] Ma. a former employee [illegible]

[illegible] of [illegible] by Dan'l Am. Mathematics [illegible] plate same on first page

Studied dynamo plates for Physics [illegible]

Papers Parts of Engines [illegible] Italian [illegible] [illegible]

[illegible] of [illegible] [illegible] engine

Visit from [illegible] Lamps [illegible]

Tuesday May 25

Visited [illegible] again [illegible] [illegible] from off [illegible] end of [illegible] large pulley

Studied Mr. Edwards to Mr. [illegible] [illegible] [illegible] and Mr. Bailey

Studied [illegible] Dan'l [illegible]

Took [illegible] me discussing [illegible] [illegible] [illegible] [illegible] [illegible] principle adaptation of the [illegible] [illegible]

Test of Ward Leg at 160 [illegible] other [illegible] 99.2 lbs. 7 per Horse Power. 30 [illegible] 4.86 other [illegible] 85 Horse power

Test Large Dynamo - 116 [illegible] 124 [illegible] [illegible] 4 Mr. [illegible] 9 [illegible] [illegible]

Armature running 102 Rev [illegible] Book 48, page 197 & Book 87, pg. 184

Wednesday May 26.

Telephonic communication opened between
× dynamo station & Laboratory

The Road [illegible] and the [illegible] engine
× and [illegible] around R.R. [illegible]

× Tested large Dynamo with same results

× Absence Mr. Batchelor

[illegible] chips from woods [illegible]
lowest [illegible] 12.8 [illegible] 13.37. Highest
Rose 38.76 Mahogany 31.06 per cent
Book No. 32 page 117 [illegible]. Dried in Steam
bath, reweighed after exposure to air
× 24 hours, Orange Sassafras & Mahogany
only lost, San Domingo Mahogany, &
Dogwood neither gained nor lost, all
others gained from 4 to 20 milligrammes
white Pine gained least, [illegible]
the highest.

Andrews working on [illegible] gas
× [illegible] for outer globes

Thursday May 27.

Visitors Bailey, [illegible] & [illegible]

Brush holder Mr. Clarke devising new
× simple brush holder on large dynamo.

Mottle plates slotted like one made by
Van Cleve, giving best satisfaction
× in carbonizing. [illegible] making more
of them.

Pipes for Mercury pump used and
× [illegible] for Glass House ready for
gas fixtures

Mercury experiment continued by
Dr. Moses and the method of cleaning
× by [illegible] found very successful,
he is devising arrangements of working
it in large quantities

Case, Clarke and Haid experimenting
on methods of treating refractory
× ores, and are using the furnaces
in connection therewith

Friday May 28

Pump leaves used from Butler cut-
X Used repaired for change and on
Bank minute

Bat-Pen 5th long 7th and 8th strings
$\frac{100}{100}$ Ohms $\frac{100}{100}$ - 100 ohms - results
X Robins Bell, perfect stope and fine
Sounds and tests 100 - 204 - 205 - 206 - 207

Milton & Abenter. Rev Miller brothers &
X per gmb from S. America. letter and Mr
Earnes dean to Port Antony

Magnetic R.R. from Reeds, Shirley
X Mr. Ives. Engine working fine clear

Anchors furniture apparatus per pantry
X Gen. taking inventory 15 Leaving
the stores

New pump at sp. Lamper and Rac
X in 2½ hrs.

Mercury cleaning experiments, Reed
X 15 leaves by Dr. Meyer

Saturday May 29

Work general. Five men preparing lies
to extend 15 Rm 4 balancing old traps,
Gang still cutting down condensers to
Still Lamper 2 carpenters at the Stamp
X Mr. Bachler & Force preparing repairing
Stamp machine, Cunningham and
Shelley on small dynamos. Glove
Cleaner or bumper boy Little doing
in Chemical Laboratory.

Rice & Lidinger. A number of samples
of sands rec'd from Mr Lampshire
X letter Book No 50 - pages 172 - 18
bags principally Prince claim

Machine Gear Replace the machine
X used & Lady has adapted by 15
the electric Locomotive

Test large Dynamo. one smaller 1 test
X have Run till on May -

Visitors Young man with uncandescent
lamp & Mr. Ives with engineer from mines

Sunday May 30

Microscopic exp. by Carmen examined by Mr. Edison. did not discover the [illegible] as in previous exp. vide 18 dec.

Graphs tested by Francis to show the effect of rain and damp weather with Gou Battery. 30 ohms resistance on this circuit Mr. Edison's 5 ohms resistance 1/2 of current and the same current with 19 ohms

Edison's experiments on series of Gal. Bar telephone without battery with results, with no coating of communication

Once Mr. Edison testing the Bar and Battings sent by Mr. Langdon and directed Carman to experiment in removing coating from gold so that it may be retained by mercury.

May 2 21
Note discovery
Phono Telephone
Patented May 19th

Monday May 31

Carbonizing effects by Upgraff of Gas Light Edison Light smoking vide

Over-wound passages reversed and tested by Mr. Edison. S.D. Doctor. the best Sewing Co Organ

Diagram for application for Patent on Jacquard. 1872 Japanese Mode for [illegible] defining orders in tiny high voltage vacuum

Graphs of Dynamos. Mr. Upton commencing series of experiments to determine some laws governing the construction of Electro Magnets and to ascertain economics in the method of proportioning the same

Heater made by Rudolph was tested to Mr. Upton. Tube found to work by Edison and Gaulard flame.

Many of the Rim at Menlo Decorating

Tuesday June 1.

Fusilier Bush Mr. Haring drawing one
X showing means of applying a lubricating
position back to piston of the engine
and more diagram of lubricator.

Allen Gardner [illegible] to be paid to
consider papers [illegible] as Mr.
meetingly.

Old [illegible] & Carpenter finished all accounts
paid for the machinery & the painters
Kerr [illegible] each side for brass &
one inch side of brass for steam 2 and
[illegible] bench for 5. [illegible] & chamber

Esdaile [illegible] California Mining Mem. to
[illegible] Mr. Edison shows the process
X for making [illegible] water by passing
the current through salt water. also
Mr. Haring

Weiss Mr. Mace report before [illegible]
X the [illegible] receiving the [illegible] amount
[illegible] attempts to day [illegible]

Turning Bark-fabr, [illegible] Lewis
X Machine for turning [illegible] fabrics No.

Wednesday June 2

Electric Mr. made by Mr. Edison yesterday

[illegible] Berdes of Troy mentioned for
[illegible] patent was yesterday granted to
Mr. A.B. for magnetic or [illegible] by charge
X [illegible] of the falling [illegible] or [illegible] [illegible]
of [illegible] by the [illegible] substitution of the [illegible]
[illegible] separate

Mr. B. [illegible] by Gen. Hall [illegible] [illegible] for
Meady [illegible] weeks in consequence of absence
X by sickness of Hammer. 100 finished 2
Hours yesterday

[illegible] experiment to [illegible]
X [illegible] today

[illegible] Mr. Haring is making [illegible]
X [illegible] drawings for using Masons [illegible]
[illegible] rope for the [illegible] 1 to 5.

[illegible] Mr. Edison [illegible]
X [illegible] perfect wood [illegible] to Hammer
fixed up Home in connection with
Grissom Gas burner in small engine Mach.

Thursday June 3.

Water — Men preparing to erect a water pipe for general supply, under the direction of Jones.

Cattle — Mr Stewart cattle washed and dressed up.

Orders — from Genl Grant from headquarters U. S. A. Army of the Potomac, Grant acknowledges receipt of the orders for the coming campaign and advises that he will move forward with full force, as one man, the 4th full of three regiments 2250 Rifles & Carbines.

Drainage — Mr Batchelor has been putting flume tage to be turned on Cattle and Sheep in some troughs for another three in Camps.

Wood — Milling Team commenced on together Mortices of Milling wood, sheds roofs & some as another Machine Lock house with rollers lot putting

From the wind similar to August 2nd the Men commenced to receive on double Cots or carriage.

Cars — Part of castings for cars C.B. received this A. M.

Water — Pump to contain heart filled by Mason & Friday June 4

Elec. Motive — from Mr Clark finished patch taking the pan of the motive power in Alpha on train down to the Lamps.

Rec'd Book No 66 Wages 130 to 140 = 140 = 150

Tar line of 1500 feet with 30 lamps from three each the fee is from 100 at Wardsville to 87½ at Last Camp.

Globe — I discovered last evening that some of the large globes were breaking in consequence of swelling of the pipe.

Posts — Mr Rowe gathering them in this morning found about 6 for Dr holders

Saturday June 5

Clear, pleasant. Magnetic getting out.

Quarter Mr. G. went to Pierce line p.m. 3.30 Carry p.m. 5. [illegible] Mr. Dillon here.

Carry, in in Points of Bolton Heavy, came against Grampus pretty heavy, no serious damage done.

Dynamic. Mr. Ainsworth back in order to Carpenter and consult with Hyde the pump for pressure of furnace.

Green lops lamps. Brown hung on main run down stairs in Calculating for lighting.

Magnetic Lighting Apparatus principal on Andrews. no theoretic [illegible]

Pumps being carried down to Lamp factory

Visitors Mr. Goddard Mr. Lovering Read and on road run off lines at Pierce cross. Mr. on hand nothing to do

Magnetic Lighting Apparatus tests with good results. Bolton greatly pleased. Truly to be [illegible]

Ammonia experiments to reduce lens curved lines by Dr. Meyer unsuccessfully

Workground - Mr. Barthes and Hart been on lamp making machine etc. in turning Back fitter. Andrews for chimney annealer for outside globe. Bradley and Andrews on Apparatus to test magnetic friction. Glass blower on pumps. Tin & Iron on enclosing tubes of P.P. Lamp on laying conductor. Place mounting Timber Cunningham on small lighting

Increase of volume of water by addition of salts. Experiment made for measuring the impact, & Larson conducting the experiments.

Monday June 7

Kept made of small dynamo by Pitts

Visit plant near Washington Park yesterday
Nice lider by Mr. Edison

Allowance received by Heath for electric
Kennedy this A. M. for burned carbon
burned

Visitors Prof. Brackett since other invitations
Notes.

Mercury pump. pipes being drawn
by electric

Sheep & lamb was left in charge

Effender Col. Mr. Edison left for Canada
Keir McGregor

Lunch Edison in large 120 Hp Engine
Kilbuffer & Green Mott Dynamos
P.O. Hearings see May 27.

(Copy record of files Book 57. pages
Book 57. 201 Camp Mahoney

4h to determine Fall of Potential
in Lamp system. Guessed from
about 100 ohm each equal 1 lamp each

Bad fibers. Beaded fibers either
insufficient to cut out one entire
fiber a piece and may work